

Figure 3

## **Optimal UI Requirements**

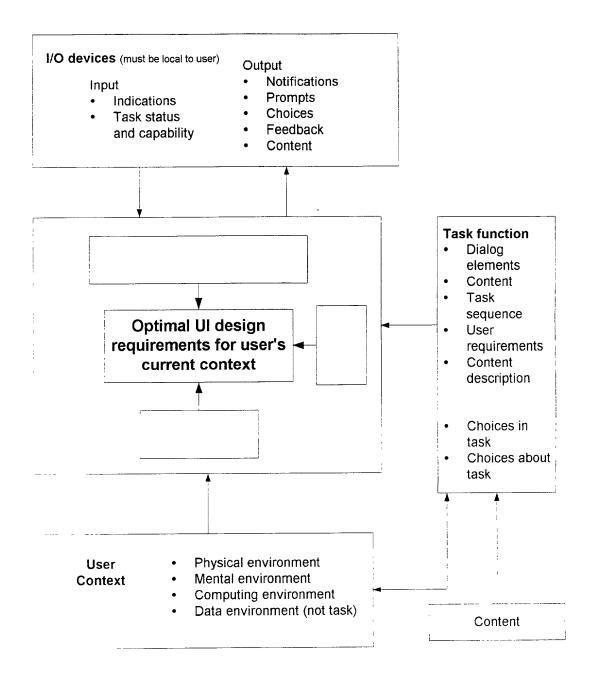


Figure 4

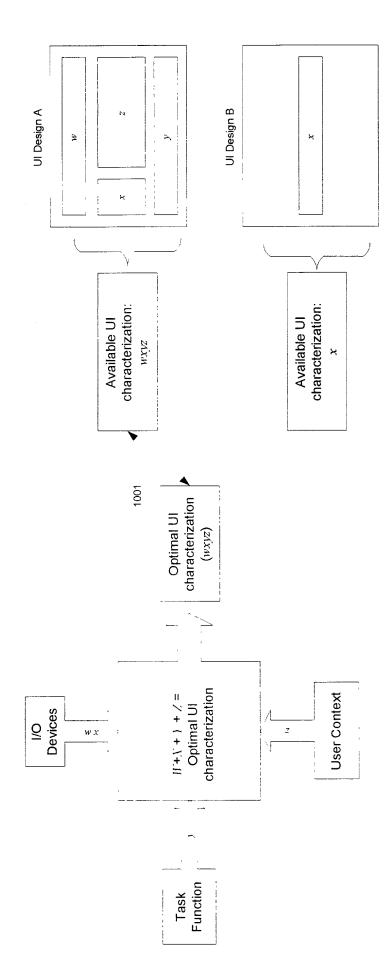


Figure 6

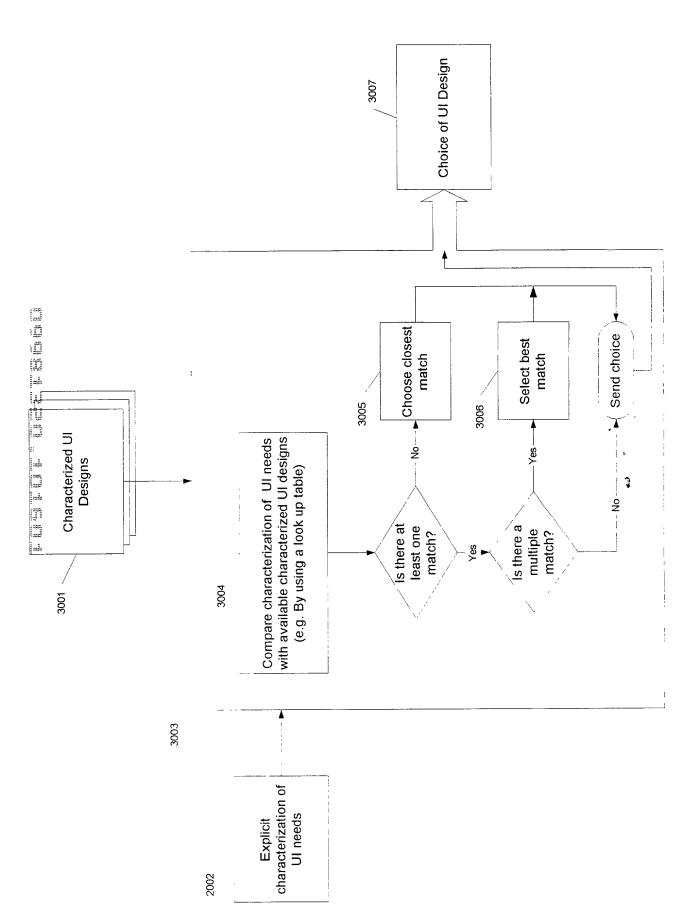


Figure 7

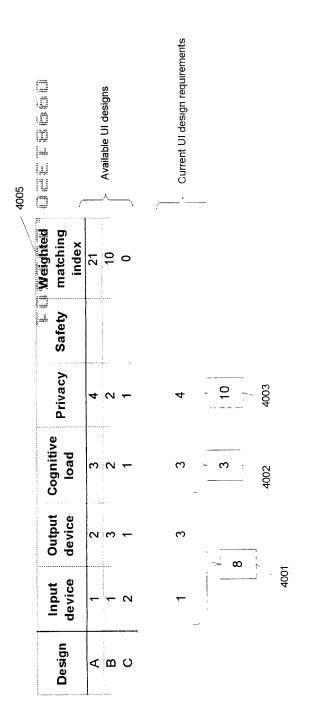


Figure 8

The state of the s	Available UI designs				Current UI design requirements
Weighted sty matching index	21	10	0	22	'
Safety				2	5 22 5004
Privacy	4	2	<del></del>	7	10 10 5003
Cognitive load	3	2	Ψ.	7	5002
Output device	2	3	_	7	× &
Input device	1		7	7	6000s
Design	4	М	O	Ω	

Figure 9

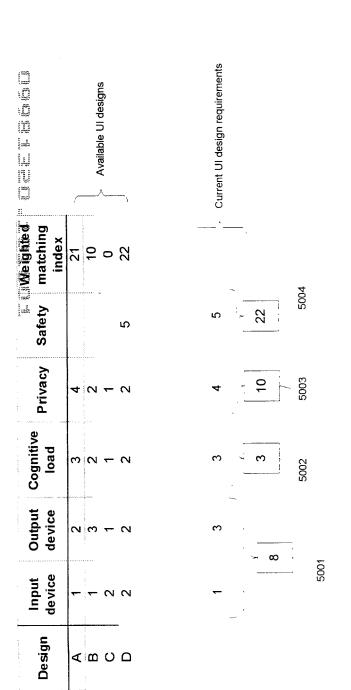


Figure 10

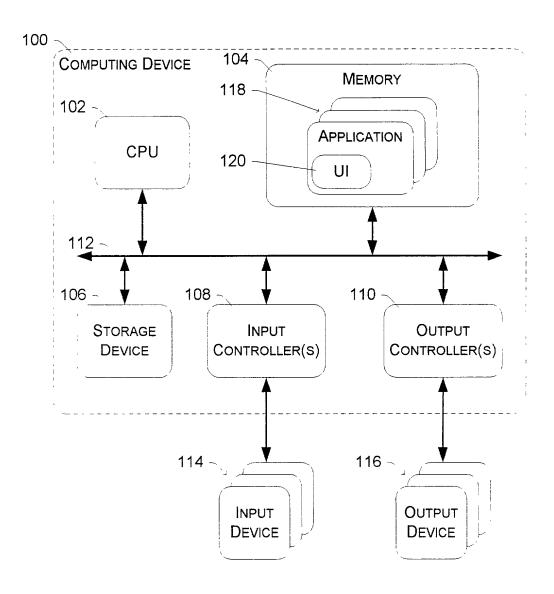


Fig. 11

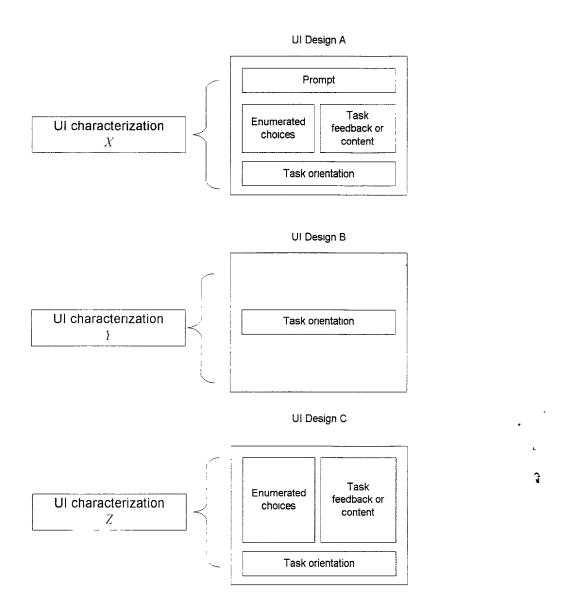


Fig. 12

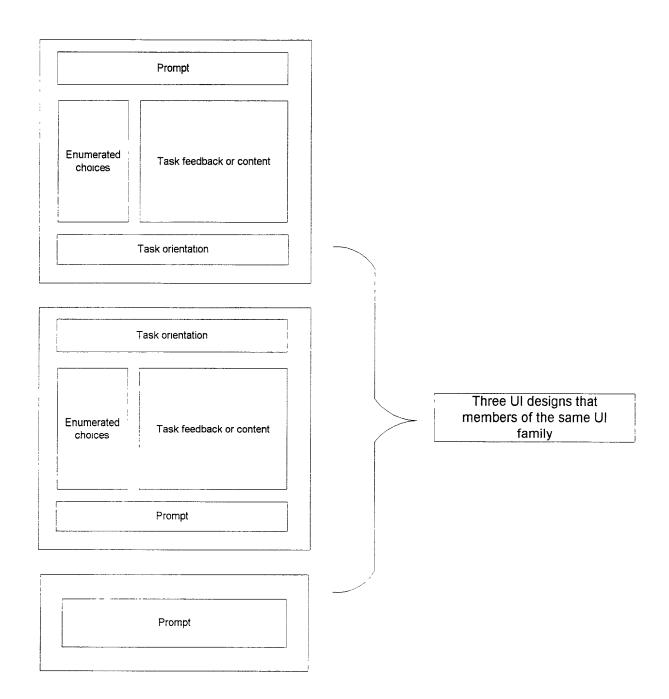


Fig. 13

specified by the Applet, it's

presented by the UIF.

General Ul assumption So long as something is

The fact of the fa Purpose The goal plus task Provide minimal user guidance about what to do next at each step (state) of the Applet Canbe audio, video, LCO, etc.

interaction. Content of the prompt(s) is provided by the Applet. How the prompt is presented (what combo of audio. Format Under UIF's sole control for look, feet, and video, LCD, etc.) is ultimately derived from the CM

APPLET WINDOW Applet window Prompt(s)

User choices

Purpose Provide options for user to choose from

USER CHOICES

(e.g., verbally, visually, etc.) is ultimately derived from the CM. from the Applet. How the choices are presented and interaction. Choices in the list are received Format Under UIF's sole control for look, feet. to complete each step (state) of the Applet

control for look, feel, and content, ultimately to be under UIF's sole control for look, feel. Format Currently specified by Applet for and content as specified by Applet

Purpose To clarify or amplify the meaning

of a choice or state.

with the Applet, the bouncing ball guides the user through the Purpose Present all states (steps) of an Applet at once as a cheat sheet of what to do or expect next. For those familiar Bouncing ball BOUNCING BALL

Format Under UIF's sole control for look, teel, and interaction Conlent of the state tabel(s) is provided by the Applet How the states are presented is ultimately derived from the CM

Applet at a very high level, with a minimum of prompling

UIF User Interface Framework Κeχ

CM Characterization Module

within the Tangis (Product) environment Applet Any software developed to run

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